BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of the work: **Estimate for Improvements to Roads and Providing Covering Slabs to Existing Drains in Ward No. 11 (Kuvempungara), Vidyaranyapura Sub Division.**

							Estimate Cost:		5000000.00
Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
1	KSRRB 300-2. Earth work excavation by manual means in **hard soil** involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3. **Page No. 138 / Item No. 19.2 / PWD SR 2014-15**	Cum							
	Drain		2	50.00	1.00	1.20	120.00		
			2	50.00	1.00	1.20	120.00		
	Culvert		2	6.00	2.00	1.20	28.80		
	CC Road @ Singapura Novodiaya School Road		1	65.00	5.50	0.15	53.63		
	Velangini Lane		1	100.00	4.00	0.25	100.00		
			1	100.00	5.00	0.15	75.00		
	Velangini Line Desilting of CC Drain		2	250.00	0.90	0.40	180.00		
							677.43	105.84	**71699.00**
	Basic Rate	98.00							
	Area Weightage @8%	7.84							
	Total	**105.84**							
2	KSRB 4-1.3 : Providing and laying in position **plain cement concrete of mix 1:4:8 with OPC cement @ 180 Kgs** using **40mm** and down size graded granite metal, corse aggregates @ 0.85 cum and fine aggregtes @ 0.58cum machine mixed, concrete laid in layers not exceeding 15 cms thick, well compacted, **in foundation and plinth**, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 **Page No. 12 / Item No. 4.3 PWD SR - 2014-15**	Cum							
	CC Drain		2	50.00	1.00	0.15	15.00		
			2	50.00	1.00	0.15	15.00		
	Culvert		2	6.00	2.00	0.15	3.60		
	CC Road		1	50.00	5.50	0.15	41.25		
			1	100.00	4.00	0.15	60.00		
			1	100.00	5.00	0.15	75.00		
							209.85	4847.04	**1017151.00**
	Basic Rate	4488.00							
	Area Weightage @ 8%	359.04							
	Total	**4847.04**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
3	KSRB 5.4-3: Providing and constructing granite / trap / basalt size stone masonry in **superstructure with cement mortar 1:6**, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5-1.13 **Page No. 23 / Item No. 5.12 / PWD SR 2014-15**	Cum							
	Culvert		2x2	6.00	0.60	0.90	**12.96**	4685.20	**60720.00**
	Basic Rate	4420.00							
	Area Weightage @ 6%	265.20							
	Total	**4685.20**							
4	KSRB 15.1.3: Providing **ruled pointing to coursed stone masonry** with cement mortar 1:3, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. **Page No. 109 / Item No. 15.3 / PWD SR 2014-15**	Sqm							
	Culvert		2x2	6.00		0.90	**21.60**	91.16	**1969.00**
	Basic Rate	86.00							
	Area Weightage @ 6%	5.16							
	Total	**91.16**							
5	KSRB 4-1.6 : Providing and laying in position plain cement concrete of **mix 1:2:4 with cement @ 240 kgs with 20mm** and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum, machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications, specification. No. KBS 4.1,4.2. **No. 12 / Item No. 4.6 / PWD SR 2014-15**	Cum							
	Culvert Coping		2	6.00	1.80	0.10	2.16		
							2.16	5228.98	**11295.00**
	Basic Rate	4933.00							
	Area Weightage @ 6%	295.98							
	Total	**5228.98**							
6	KSRB 4-6.4: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for **vertical surface** such as **walls at any thickness**, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 **Page No.15 / Item No. 4.31 PWD SR - 2014-15**	Sqm							
	For Drains Side Walls		8	50.00		0.90	360.00		
			8	50.00		0.90	360.00		
	Covering Slab Bottom		2	50.00	0.60		60.00		
			2	50.00	0.60		60.00		
	Covering Slab Sides		4	50.00		0.15	30.00		
			4	50.00		0.15	30.00		
	Culvert Covering Slab Bottom		2	6.00	0.60		7.20		

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Covering Slab Sides		4	6.00		0.25	6.00		
			4	1.80		0.25	1.80		
	Doddachannappa Layout		2	120.00	0.45		108.00		
			4	120.00		0.10	48.00		
							1071.00	292.68	**313460.00**
	Basic Rate	271.00							
	Area Weightage @ 8%	21.68							
	Total	**292.68**							
7	KSRB 4.2.2 : Providing and laying in position **reinforced cement concrete of design mix M20 with OPC cement @ 320 Kgs with 20mm** and down size graded granite metal coarse aggregates @ 0.878cum and fine aggregates @ 0.459 cum wuth superplastisier @ 3lts confirming to IS 9103-1999 reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works **in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, return walls, wall** (any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.6 **Page No. 13 / Item No. 4.11 PWD SR - 2014-15**	Cum							
	Bottom		2	50.00	0.90	0.15	13.50		
			2	50.00	0.90	0.15	13.50		
	Side Walls		4	50.00	0.15	0.90	27.00		
			2	50.00	0.15	0.90	13.50		
	Covering		2	50.00	0.90	0.10	9.00		
			2	50.00	0.90	0.10	9.00		
	Culvert		2	6.00	1.80	0.23	4.97		
	Bottom Concrete for Existing CC Drain		2	250.00	0.90	0.15	67.50		
	Repairs of Side Walls		4	50.00	0.15	0.60	18.00		
	Missing Covering Slab		2	100.00	0.90	0.10	18.00		
	Existing Drain Covering Slab		2	120.00	0.45	0.10	10.80		
							204.77	6065.28	**1241975.00**
	Basic Rate	5616.00							
	Area Weightage @ 8%	449.28							
	Total	**6065.28**							
8	KSRB 4.9.1: Providing **mild steel reinforcement for R.C.C** work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 **Page No. 17 / Item No. 4.46.2 PWD SR 2014-15**	Qntl							
	Consider 80 Kg/Cum		0.80	204.77			**163.81**	7975.80	**1306551.00**

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Basic Rate	7385.00							
	Area Weightage 8%	590.80							
	Total	**7975.80**							
9	KSRRB M2600-3: Providing & fixing 20 mm thick **compressible fibre board** in expansion joint complete as per drawing & technical specification complete as per specifications, MORTH specification No. 2605, **No. 233 / Item No. 31.3 PWD SR 2014-15**	M							
	CC Road		7	5.00			35.00		
			10	4.00			40.00		
			10	5.00			50.00		
							125.00	138.24	**17280.00**
	Basic Rate	128.00							
	Area Weightage @ 8%	10.24							
	Total	**138.24**							
10	KSRB- 4-1.5 : Providing and laying in position plain cement concrete of **mix M20 with OPC cement @ 300 kgs, with 20mm** and down size graded granite metal coarse aggregates @ 0.64 cum and fine aggregares @ 0.43 cum with superplastisiser @ 3lts confirming to IS9103-1999 reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications, specification. No. KBS 4.1,4.2, **No. 12/ Item No. 4.5/ PWD SR 2014-15**	Cum							
	CC Road @ Singapura Novodiaya School Road		1	65.00	5.50	0.10	35.75		
			1	100.00	4.00	0.10	40.00		
			1	100.00	5.00	0.10	50.00		
							125.75	5852.52	**735954.00**
	Basic Rate	5419.00							
	Area Weightage @ 8%	433.52							
	Total	**5852.52**							
11	**Vaccum De-watering** with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator HOM of machinery Screed Vibratiry, Power Floater, blade and disc etc., with all lead and lift No. **171 / Item No. 22.7/ PWD SR 2014-15**	Sqm							
	CC Road @ Singapura Novodiaya School Road		1	65.00	5.50		357.50		
			1	100.00	4.00		400.00		
			1	100.00	5.00		500.00		
							1257.50	97.20	**122229.00**
	Basic Rate	90.00							
	Area Weightage @ 8%	7.20							
	Total	**97.20**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
12	Lead for Disposal of Debris shall be payable at carriage rates by Mechanical means inlcuding loading and unloading. From 0.00 to 2.00 Km (Page No.123)	Cum							
			Vide Item No. 1				**677.43**	72.71	**49253.00**
	Basic rate for haulage of materials as per item no.17.4 page 141) Rs. 2.00								
	Average weight of earth 1.28 tonne / kg for 2X1.28X2.00=5.12	5.12							
	Add loading and unloading Vide item no.17.1 P.no.141	62.20							
		67.32							
	Area Weightage @ 8%	5.39							
	Total	**72.71**							
13	Sub Total								**4949536.00**
14	For Third Party QC Charges @ 1%								**49495.00**
15	Miscellaneous and other Charges	L/S							**969.00**
								Total	**5000000.00**
	(Rs.Fifty Lakhs Only)								

CERTIFICATE:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per P.W.D S.R of 2014-15.
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidyaranyapura Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

Modified
Technical Sanction for Rs. 50.00 Lakhs.
Fifty Lakhs only.
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